







Net-Zero 2050: U.S. Economy-Wide Deep Decarbonization Scenario Analysis

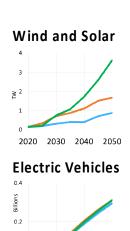


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U.S. Technology Trends over Time to Net-Zero in 2050

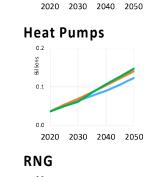


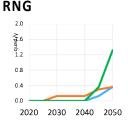
- There is no on-size-fits-all solution; viable strategies will differ by region
- Many different technologies will be needed to support decarbonization
- Technology deployment (types & timelines) impacted by complex energy system scenarios

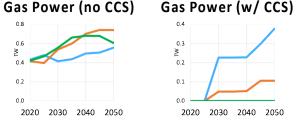


Bio-liquids

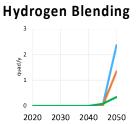
2030 2040 2050

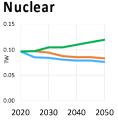


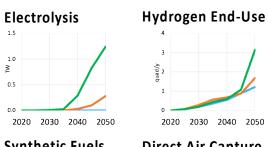


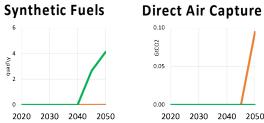












Hydrogen Power

2020 2030 2040 2050

U.S. 2050 Net Zero Scenarios

All Options

Higher Fuel Costs

Limited Options



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